Author index

ÅBORG, C.-H. (see UVNÄS, B.)

AGNATI, L. F. (see Fuxe, K.)

AGNATI, L. F. (see GRIMALDI, R.)

AHLMAN, H. (see WIGANDER, A.)

ALÉN, M. (see VIINAMÄKI, O.)

ANDÉN, N.-E., GRABOWSKA-ANDÉN, M. & SCHWIELER, I. Transfer of DOPA from the sympatho-adrenal system to the pancreas, liver and kidney via the blood circulation, 75

ANDÉN, N.-E., GRABOWSKA-ANDÉN, M. & SCHWIELER, I. Effects of a ganglionic blocking agent on the accumulation of DOPA in peripheral organs, 131

ANDERSSON, K.-E. (see RYMAN, T.)

ANDERSSON, K.-E. (see SJÖBERG, T.), 463

ANDERSSON, S. A. (see DAHLIN, L. B.)

APERIA, A. (see EKLÖF, A.-C.)

APERIA, A. (see SAHLGREN, B.) ÅRHEM, P. (see JALONEN, T.)

ARJAMAA, O. Atrial natriuretic peptide (ANP): response to NaCl is attenuated in rat atria in vitro after hypophysectomy, 499

ASK, J. A. (see STUHR, L. E. B.) ASTRAND, P. (see STJÄRNE, L.), 299

ASTRAND, P. & STJÄRNE, L. ATP as a sympathetic co-transmitter in rat vasomotor nerves - further evidence that individual release sites respond to nerve impulses by intermittent release of single quanta, 355

AUGUSTINSSON, O. & FORSLID, A. Aldosterone secretion during acute respiratory acidosis and NH₄Cl-induced metabolic acidosis in the goat,

339

BAO, J. X., ERIKSSON, I. E. & STIÄRNE, L. Neurogenic contractions in the tail artery of normotensive rats are mediated by noradrenaline and ATP via postjuntional α_1 - and α_2 -adrenoceptors and P_{2x} -purino-

ceptors, 139

BAO, J. X., ERIKSSON, I. E. & STIÄRNE, L. Age-related variations in the relative importance of noradrenaline and ATP as mediators of the contractile response of rat tail artery to sympathetic nerve

stimulation, 287

BAO, J. X., ERIKSSON, I. E. & STJÄRNE, L. Neurogenic contractions in caudal artery from young rats: receptor-receptor interaction and regional differences in effects of noradrenaline and ATP via α_1 -, $\alpha_{2}\text{-}$ and $P_{2x}\text{-}\text{receptors},\,619$ Beeuwkes III, R. (see Sjöqvist, A.)

BENT-HANSEN, L. Initial plasma disappearance and [131]albumin and distribution volume of [125] librinogen in man, 455

BERGGREN, P.-O. (see SAGULIN, G.-B.)

BLOMSTRAND, E. (see LEIGHTON, B.)

BLOMSTRAND, E., PERRETT, D., PARRY-BILLINGS, M. & NEWSHOLME, E. A. Effect of sustained exercise on plasma amino acid concentrations and on 5hydroxytryptamine metabolism in six different brain regions in the rat, 473

BORGES, O. & ESSÉN-GUSTAVSSON, B. Enzyme activities in type I and II muscle fibres of human skeletal muscle in relation to age and torque development,

BRANDT, L. (see RYMAN, T.)

BROBERG, S. (see SAHLIN, K.), 193, 293

BRODIN, E. (see BRODIN, K.)

BRODIN, E. (see Rosén, A.)

BRODIN, K., ROSÉN, A., IWARSSON, K., ÖGREN, S.-O. & Brodin, E. Increased levels of substance P and cholecystokinin in rat cerebral cortex following repeated electroconvulsive shock and subchronic treatment with a serotonin uptake inhibitor, 613

BUANES, T. (see GROTMOL, T.)

CABERO, J. L., REHFELD, J. F. MARDH, S. The effects of various gastrins on intracellular free Ca2+ in isolated pig parietal cells, 301

CHALLIS, R. A. J. (see LEIGHTON, B.)

CHANG, J.-Y. & OWMAN, CH. Cerebrovascular serotonergic receptors mediating vasoconstriction: further evidence for the existence of 5-HT, receptors in rat and 5-HT,-like receptors in guinea-pig basilar arteries, 59

CLEMONS, G. K. (see WIDNESS, J. A.) CONRADI, N. G. (see SJÖSTRÖM, A.)

CONRADI, N. G. & SJÖSTRÖM, A. Functional development of the visual system in normal and protein-deprived rats. VII. Lamination of oxidative enzyme activity in the visual cortex during postnatal development, 589

CONRADI, N. G., SJÖSTRÖM, A. & RYDENHAG, B. Functional development of the visual system in normal and protein-deprived rats. VIII. Post-natal

development of optic nerve axons, 597 CORTELLI, P. (see GRIMALDI, R.)

DAHL, H. A. (see JENSEN, J.)

DAHLIN, L. B., SHYU, B. C., DANIELSEN, N. & ANDERSSON, S. A. Effects of nerve compression or ischaemia on conduction properties of myelinated and non-myelinated nerves fibres. An experimental study in the rabbit common peroneal nerve, 97

DAHLSTRÖM, A. (see WIGANDER, A.) DANIELSEN, N. (see DAHLIN, L. B.)

DANIELSSON, I. & NORRSELL, U. Orienting reactions to light tactile stimuli after single and repeated partial spinal cord lesions in the cat, 121

Danielsson, L.-G. (see Uvnäs, B.)

DELBRO, D. & GUSTAFSSON, B. I. Vagally induced hexamethonium-resistant jejunal contractions in the cat, 621

DIMITRIADIS, G. D. (see LEIGHTON, B.)

EDFELDT, H. (see LÄNNE, T.), 141

EDMAN, K. A. P. (see Mansson, A.), 37

EKEN, T. & KIEHN, O. Bistable firing properties of soleus motor units in unrestrained rats, 383

EKLÖF, A.-C. & APERIA, A. Renal function in different forms of renovascular hypertension, 487

EKMEHAG, B. L. & HELLSTRAND, P. Shortening velocity, myosin light chain phosphorylation and Ca2+ dependence of force during metabolic inhibition in smooth muscle of rat portal vein,

EKSTRÖM, J., NILSSON, B.-O. & ROSENGREN, E. Substance P and vasoactive intestinal peptide influence polyamine metabolism in salivary glands

of the rat, 427

ERIKSSON, I. E. (see BAO, J. X.), 139, 287, 619

ESKESEN, K. (see Ussing, H. H.)

ESKESEN, K. & USSING, H. H. Transport pathways for Na+ and Br- (Cl-) in noradrenaline-stimulated frog

skin (Rana temporaria), 535

ESKESEN, K. & USSING, H. H. The effect of amiloride and benzimidazoleguanidine added to the inside medium on electrolyte pathways in the frog skin glands, 547

Essén-Gustavsson, B. (see Borges, O.) VON EULER, G. (see Fuxe, K.)

FÄNDRIKS, L. (see JONSON, C.)

FERRAGUTI, F. (see GRIMALDI, R.) FINNMAN, U.-B. (see Fuxe, K.)

FLEMSTRÖM, G. (see LÖNNERHOLM, G.)

Forslid, A. (see Augustinsson, O.)

FRANCO-CERECEDA, A. & RUDEHILL, A. Capsaicininduced vasodilatation of human arteries in vitro is mediated by calcitonin gene-related peptide rather than substance P or neurokinin A, 575

Fredholm, B. B. (see Hu, P.-S.) FUXE, K. (see GRIMALDI, R.) FUXE, K. (see ÖGREN, S.-O.)

FUXE, K. VON EULER, G., FINNMAN, U.-B. & AGNATI, L. F. Reduction of [3H]nicotine binding in hypothalamic and cortical membranes by dopamine DI receptors, 295

GRABOWSKA-ANDÉN, M. (see ANDÉN, N.-E.), 75, 131 GRAPENGIESSER, E., GYLFE, E. & HELLMAN, B. Ca2+ oscillations in pancreatic β -cells exposed to leucine and arginine, 113

GRENHOFF, J. (see Svensson, T. H.), 497

GRIMALDI, R., ZINI, I., FERRAGUTI, F., CORTELLI, P., KÅHRSTRÖM, J. (see HARDEBO, J. E.)

FUXE, K., AGNATI, L. F. & ZOLI, M. Effects of transient forebrain ischaemia on vasoactive intestinal polypeptide-immunoreactive neuronal populations in the frontoparietal cortex and hippocampal formation of the male rat, 289

GROTMOL, T., BUANES, T. & RŒDER, M. Effects of digitoxin and lithium, used as a marker of passive Na transport, on secretin-dependent bile flow in the

pig, 411

GUSTAFSSON, B. I. (see DELBRO, D.) GUTH, B. D. (see THAULOW, E.) GYLFE, E. (see GRAPENGIESSER, E.)

Hågå, P. (see WIDNESS, J. A.)

HAGLIND, E. (see LUNDGREN, O.) HALVORSEN, S. (see WIDNESS, J. A.)

HARDEBO, J. E., WIELOCH, T. & KAHRSTRÖM, J. Excitatory amino acids and cerebrovascular tone,

HEINONEN, O. J. (see VIINAMÄKI, O.) HELLMAN, B. (see GRAPENGIESSER, E.) HELLSTRAND, P. (see EKMEHAG, B. L.)

HENRIKSSON, J. (see NIE, Z. T.) HOLOPAINEN, I. (see JALONEN, T.)

HOLST, J. J., ØRSKOV, C., KNUHTSEN, S., SHEIKH, S. & NIELSEN, O. V. On the regulatory functions of neuropeptide Y (NPY) with respect to vascular resistance and exocrine and endocrine secretion in the pig pancreas, 519

Hu, P.-S. & Fredholm, B. B. α2-Adrenoceptor agonist-mediated inhibition of [3H]noradrenaline release from rat hippocampus is reduced by 4aminopyridine, but that caused by an adenosine

analogue or ω -conotoxin is not, 347

IVERSEN, P.O., STANDA, M. & NICOLAYSEN, G. Marked regional heterogeneity in blood flow within a single skeletal muscle at rest and during exercise hyperaemia in the rabbit, 17 IWARSSON, K. (see BRODIN, K.)

JALONEN, T., JOHANSSON, S., HOLOPAINEN, I., OJA, S. S. & ARHEM, P. A high-conductance multistate anion channel in cultured rat astrocytes,

JANSSON, E. (see SYLVÉN, C.)

JENSEN, J., DAHL, H. A. & OPSTAD, P. K. Adrenalinemediated glycogenolysis in different skeletal muscle fibre types in the anaesthetized rat, 220

JOHANSSON, E. (see SCHANTZ, P. G.) JOHANSSON, S. (see JALONEN, T.)

JOHANSSON, S. (see NIE, Z. T.) JÖNSON, C., FÄNDRIKS, L. & PETTERSSON, A. Increased duodenal HCO2 output after blood volume expansion in the rat: an effect mediated by atrial natriuretic peptide (ANP)? 263

JÖNSSON, C .- O. (see PETTERSSON, A.)

KALLNER, A. (see SYLVÉN, C.)

KARLSON, E. (see SCHANTZ, P. G.)

KARWATOWSKA-PROKOPCZUK, E. (see WENNMALM, Å.),

KATZ, A. (see SAHLIN, K.), 199

KATZ, A. & SAHLIN, K. Effect of hypoxia on glucose metabolism in human skeletal muscle during exercise, 377

KIEHN, O. (see EKEN, T.)

KIENS, B., SALTIN, B., WALLLØE, L. & WESCHE, J. Temporal relationship between blood flow changes and release of ions and metabolites from muscles upon single weak contractions, 51

KNUHTSEN, S. (see HOLST, J. J.) KNUTSON, L. (see LÖNNERHOLM, G.)

KUJALA, U. M. (see VIINAMÄKI, O.)

LÄNNE, T. (see LUNDVALL, J.), 7, 403

LÄNNE, T., EDFELDT, H. & LUNDVALL, J. Failure of the venous pressure decline in hypovolaemia to be transmitted to the capillary level and cause compensatory absorption of extravascular fluid into the circulation, 141

LÄNNE, T. & LUNDVALL, J. Very rapid net transcapillary fluid absorption from skeletal muscle and skin in man during pronounced hypovolaemic

circulatory stress, 1

LEIGHTON, B., BLOMSTRAND, E., CHALLISS, R. A. J., LOZEMAN, F. J., BARRY-BILLINGS, M., DIMITRIADIS, G. D. & NEWSHOLME, E. A. Acute and chronic effects of strenuous exercise on glucose metabolism in isolated, incubated soleus muscle of exercisetrained rats, 177

LEPPALUOTO, J. (see TUOMISTO, L.)

LEXELL, J. & TAYLOR, C. C. Variability in muscle fibre areas in whole human quadriceps muscle. How much and why?, 561

LIN, L. (see SYLVÉN, C.)

LINDVALL-AXELSSON, M. & OWMAN, CH. Changes in transport functions of isolated rabbit choroid plexus under the influence of oestrogen and progesterone,

LÖNNERHOLM, G., KNUTSON, L., WISTRAND, P. J. & FLEMSTRÖM, G. Carbonic anhydrase in the normal rat stomach and duodenum and after treatment with omeprazole and ranitidine, 253

LOZEMAN, F. J. (see LEIGHTON, B.) LUNDBERG, J. M. (see PERNOW, J.)

LUNDGREN, O., HAGLIND, E. & MARDH, S. Failure to deduce a peptide inhibitor of Na,K-ATPase from the gene coding for the catalytic a-subunit of Na,K-ATPase, 281

LUNDH, A. (see SCHANTZ, P. G.)

LUNDMARK, K. (see WIGANDER, A.)

LUNDVALL, J. (see LÄNNE, T.), 1, 141

LUNDVALL, J. & LÄNNE, T. Much larger transcapillary hydrodynamic conductivity in skeletal muscle and skin of man than previously believed, 7

LUNDVALL, J. & LÄNNE, T. Transmission of externally

applied negative pressure to the underlying tissue. A study on the upper arm of man, 403

LYSSARIDES, L. (see UVNÄS, B.)

MCRAE, A. (see WIGANDER, A.)

Mäki, T. Density functioning of human lymphocytic B-adrenergic receptors during prolonged physical exercise, 560

Månsson, A. The effects of tonicity on tension and stiffness of tetanized skeletal muscle fibres of the

frog, 205

Månsson, A., Mörner, J. & Edman, K. A. P. Effects of amrinone on twitch, tetanus and shortening kinetics in mammalian skeletal muscle, 37

Mårdh, S. (see Cabero, J. L.)

Mårdh, S. (see Lundgren, O.)

Mårdh, S. & Song, Y.-H. Characterization of antigenic structures in auto-immune atrophic gastritis with pernicious anaemia. The parietal cell H,K-ATPase and the chief cell pepsinogen are the two major antigens, 581

MELLERGARD, P. (see RYMAN, T.)

MORITANI, T. (see SCHANTZ, P. G.)

MÖRNER, J. (see Månsson, A.), 37

MSGHINA, M. (see STJÄRNE, L.), 137, 299, 617

MÜLLER, R. M. (see SAGULIN, G.-B.)

MYHRE, K. (see WIDNESS, J. A.)

NEWSHOLME, E. A. (see BLOMSTRAND, E.)

NEWSHOLME, E. A. (see LEIGHTON, B.)

NICOLAYSEN, G. (see IVERSEN, P. O.)

NIE, Z. T., WALLBERG-HENRIKSSON, H., JOHANSSON, S. & HENRIKSSON, J. Effects of adrenaline and prior exercise on the release of alanine, glutamine and glutamate from incubated rat skeletal muscle, 395

NIELSEN, O. V. (see HOLST, J. J.)

NILSSON, B.-O. (see EKSTRÖM, J.)

NILSSON, J. & THORSTENSSON, A. Ground reaction forces at different speeds of human walking and running, 217

NILSSON, T. (see SAGULIN, G.-B.) NORGREN, L. (see Sjöberg, T.), 463

NORRSELL, U. (see DANIELSSON, I.)

ODDSSON, L. Motor patterns of a fast voluntary postural task in man: trunk extension in standing,

ÖGREN, S.-O. (see BRODIN, K.)

ÖGREN, S.-O. & FUXE, K. Intraventricular injections of galanin counteract development of head twitches induced by the 5-HT-2 agonist 1-(2,5-dimethoxyphenyl-4-bromo)-2-aminopropane, 297

OJA, S. S. (see JALONEN, T.)

OPSTAD, P. K. (see JENSEN, J.)

ØRSKOV, C. (see HOLST, J. J.)

OWMAN, CH. (see CHANG, J.-Y.)

OWMAN, CH. (see LINDVALL-AXELSSON, M.)

PARRY-BILLINGS, M. (see BLOMSTRAND, E.)

PARRY-BILLINGS, M. (see LEIGHTON, B.)

Pernow, J. & Lundberg, J. M. Release and vasoconstrictor effects of neuropeptide Y in relation to non-adrenergic sympathetic control of renal blood flow in the pig, 507

PERRETT, D. (see BLOMSTRAND, E.)

PETTERSSON, A. (see JÖNSON, C.)

PETTERSSON, A. & JÖNSSON, C.-O. Effects of atrial natriuretic peptide (ANP) on jejunal net fluid absorption in the rat, 419

REHFELD, J. F. (see CABERO, J. L.) REN, J. M. (see SAHLIN, K.), 193

RŒDER, M. (see GROTMOL, T.)
ROOMANS, G. M. (see SAGULIN, G.-B.)

Rosén, A. (see Brodin, K.)

ROSEN, A. (see BRODIN, K.)
ROSÉN, A. & BRODIN, E. Effect of acute morphine treatment on peptide levels in the peri-aqueductal

grey, 493 Rosengren, E. (see Ekström, J.)

ROSS JR, J. (see THAULOW, E.) RUDEHILL, A. (see FRANCO-CERECEDA, A.)

RYDENHAG, B. (see CONRADI, N. G.), 597

RYMAN, T., BRANDT, L., ANDERSSON, K.-E. & MELLERGÅRD, P. Regional and species differences in vascular reactivity to extracellular potassium, 151

SAGULIN, G.-B., MÜLLER, R. M., WESTLIND-DANIELSSON, A., NILSSON, T., BERGGREN, P.-O. & ROOMANS, G. M. Mechanism of action of calcitonin on secretion in rat submandibular gland, 435

SAHLGREN, B. & APERIA, A. Regulation of glomerular antiotensin II receptors in renovascular hypertension: absence of response to variations in salt

intake, 495

SAHLIN, K., BROBERG, S. & REN, J. M. Formation of inosine monophosphate (IMP) in human skeletal muscle during incremental dynamic exercise, 193 SAHLIN, K. & BROBERG, S. Release of K⁺ from muscle

during prolonged dynamic exercise, 293

SAHLIN, K. (see KATZ, A.)

SAHLIN, K. & KATZ, A. Hypoxaemia increases the accumulation of inosine monophosphate (IMP) in human skeletal muscle during submaximal exercise,

SALTIN, B. (see KIENS, B.)

SANENGEN, T. (see WIDNESS, J. A.)

SCHANTZ, P. G., MORITANI, T., KARLSON, E., JOHANSSON, E. & LUNDH, A. Maximal voluntary force of bilateral and unilateral leg extension, 185

SCHULZ, R. (see THAULOW, E.)

SCHWIELER, J. (see ANDÉN, N.-E.), 75, 131

SHEIKH, S. (see HOLST, J. J.)

SHYU, B. C. (see DAHLIN, L. B.)

Sisto, T., Tainio, H. & Vaalasti, A. Neuropeptides in the human internal mammary artery, 615

SJÖBERG, T., NORGREN, L., ANDERSSON, K.-E. & STEEN, S. Comparative effects of the α -adrenoceptor

agonists noradrenaline, phenylephrine and clonidine in the human saphenous vein *in vivo* and *in vitro*,

SJÖBERG, T. & STEEN, S. The strong contractile effect of the thromboxane receptor agonist U-46619 in isolated human pulmonary arteries and its competitive antagonism by BM-13.505, 161

SJÖQVIST, A. & BEEUWKES III, R. Villous sodium gradient associated with volume absorption in the feline intestine: an electron-microprobe study on

freeze-dried tissue, 271

SJÖSTRÖM, A. (see CONRADI, N. G.), 589, 597

SJÖSTRÖM, A. & CONRADI, N. G. Functional development of the visual system in normal and protein-deprived rats. IX. Visual evoked response in young rats, 605

SONG, Y.-H. (see Mårdh, S.) STANDA, M. (see IVERSEN, P. O.)

STEEN, S. (see SJÖBERG, T.), 161, 463

STJÄRNE, E. (see STJÄRNE, L.), 137, 299, 617

STJÄRNE, L. (see ASTRAND, P.)

STJÄRNE, L. (see BAO, J. X.), 139, 287, 619

STJÄRNE, L., MSGHINA, M. & STJÄRNE, E. Is cycle AMP the intra-axonal messenger 'X' mediating 'upstream' control of sympathetic transmitter secretion?, 617

STJÄRNE, L., MSGHINA, M., STJÄRNE, E. & ÅSTRAND, P. Ca²⁺ may inhibit ATP secretion from sympathetic nerves in rat tail artery by an 'upstream' effect without blocking the Ca²⁺ component of the action potential in the terminals, 200

STJÄRNE, L., STJÄRNE, E. & MSGHINA, M. Does clonidine- or neuropeptide Y-mediated inhibition of ATP secretion from sympathetic nerves operate primarily by increasing a potassium conductance?

137 STUHR, L. E. B., ASK, J. A. & TYSSEBOTN, I. Increased cardiac contractility in rats exposed to 5 bar, 167

SVENSSON, T. H. & TUNG, C.-S. Local cooling of prefrontal cortex induces pacemaker-like firing of dopamine neurons in rat ventral tegmental area in vivo, 135

Svensson, T. H., Tung, C. S. & Grenhoff, J. The 5-HT₂ antagonist ritanserin blocks the effect of prefrontal cortex inactivation on rat A10 dopamine

neurons in vivo, 497

SYLVÉN, C., LIN, L., KALLNER, A. & JANSSON, E. Regional distribution of citrate synthase and lactate dehydrogenase isoenzymes in the bovine heart,

TAINIO, H. (see Sisto, T.)

TAYLOR, C. C. (see LEXELL, J.)

Thaulow, E., Guth, B. D., Schulz, R. & Ross Jr, J. Selective thromboxane A₂ receptor blockade in experimental exercise-induced myocardial ischaemia in dogs, 321

THESLEFF, P. An electrophysiological in-vivo study

on the effects of nerve stimulation, drugs and denervation in the parotid gland of the rat,

THESLEFF, P. Effects of β -adrenergic agonists in the parotid gland of the rat—an electrophysiological study, 245

THORSTENSSON, A. (see NILSSON, J.)

TUNG, C .- S. (see SVENSSON, T. H.), 135, 497

TUOMISTO, L. & LEPPALUOTO, J. Elevated atrial natriuretic peptide in the brain and heart of Brattleboro rats, 133

TYSSEBOTN, I. (see STUHR, L. E. B.)

Ussing, H. H. (see Eskesen, K.), 535, 547

Ussing, H. H. & Eskesen, K. Mechanism of isotonic

water transport in glands, 443

Uvnäs, B., Åborg, C.-H., Lyssarides, L. & Danielsson, L.-G. Intracellular ion exchange between cytoplasmic potassium and granule histamine, an integrated link in the histamine release machinery of mast cells, 300

VAALASTI, A. (see Sisto, T.)

VIINAMÄKI, O., HEINONEN, O. J., KUJALA, U. M. & ALÉN, M. Glucose polymer syrup attenuates prolonged endurance exercise-induced vasopressin release, 69

WALLBERG-HENRIKSSON, H. (see NIE, Z. T.)

WALLØE, L. (see KIENS, B.)

WENNMALM, Å. Application of a new technique – blood pressure clamping – for analysis of prostaglandin interference with sympathetic neurotransmission in man, 89

WENNMALM, Å., KARWATOWSKA-PROKOPCZUK, E. & WENNMALM, M. Role of the coronary endothelium in the regulation of sympathetic transmitter release in isolated rabbit hearts, 81

WENNMALM, M. (see WENNMALM, A.), 81

WESCHE, J. (see KIENS, B.)

WESTLIND-DANIELSSON, A. (see SAGULIN, G.-B.)

WIDNESS, J. A., SANENGEN, T., HÅGÅ, P., CLEMONS, G. K., MYHRE, K. & HALVORSEN, S. Correlation of plasma erythropoiesis stimulating factor(s) and immunoreactive erythropoietin levels during rapid growth in the mouse, 527

WIELOCH, T. (see HARDEBO, J. E.)

WIGANDER, A., LUNDMARK, K., McRAE, A., DAHLSTRÖM, A. & AHLMAN, H. Survival of rat fetal cholinergic neurons co-cultured with human carcinoid tumour cells, 291

WISTRAND, P. J. (see LÖNNERHOLM, G.)

ZINI, I. (see GRIMALDI, R.) ZOLI, M. (see GRIMALDI, R.)



Subject index

Acidosis, 339 Adenine nucleotides, 193, 199 Adenosine triphosphate (ATP), 139, 287, 355, 617, Adenylate cyclase, 569 Adrenaline, 395 Adrenaline infusion, 229 α,-Adrenoceptor(s), 139, 463, 619 α₂-Adrenoceptor(s), 139, 463, 619 B-Adrenoceptors, 569 Age, 287 Albumin, 455 Aldosterone, 339 Amiloride, 547 Amino acid release, 305 Ammonium chloride, 339 AMP deaminase, 199 Amrinone, 37 Amylase secretion, 519 Anaesthetized rats, 167 Angiotensin II receptors, 495 Anion channels, 611 Antibody binding site, 581 Antipyrine, 17 Arm, 403 Arteries, 355 Astrocyte culture, 611 Atria, 133 Atrial natriuretic peptide (ANP) 133, 263, 419, 499 Atrium, 331 Auto-antibodies, 581 Axonal flow, 299

Basilar artery, 59
Benzimidazoleguanidine, 547
Bicarbonate, 263
Bicarbonate secretion, 411, 519
Bile duct cells, 411
Biogenic amines, 309
Bistability, 383
Blood flow, 17, 321
Blood pressure, 89
BM-13.505, 161
Brain, 289, 295, 473
Burst firing, 135

Ca²⁺, 299
Cadmium, 347
Calcitonin, 435
Calcitonin gene-related peptide (CGRP), 575
Calcium, 435
Calcium channels, 347

Capillary filtration coefficient (CFC), 7 Capillary permeability, 455 Capillary pressure, 141 Capsaicin, 575 Carbon dioxide, 339 5-Carboxamidotryptamine, 59 Carcinoid tumour cells, 201 Cardiac glycosides, 411 Cat. 121 Catecholamine synthesis, 131 Catecholamines, 569 Cell counts, 561 Cell culture, 201 Cerebral arteries, 151 Cerebral vessels, 483 Cholecystokinin, 493 Choline, 271 Choline uptake, 107 Cholinergic neurons, 291 Choroid plexus, 107 Circulation, 17 Citrate synthase, 331 Clonidine, 137, 463 Co-transmission, 287 Contractility, 167 Contraction, 321 Coronary stenosis, 321 Coronary vasodilatation, 575 Cortisol, 339 Cross-bridge kinetics, 37 Cross-bridges, 205 Cyanide, 367 Cyclic AMP, 435, 569, 617 Cytoplasmic Ca2+, 113

DI receptors, 295
Denervation, 245
Diabetes insipidus, 133
Distribution, 17
DNAs, 281
DOPA, 75
DOPA accumulation, 131
DOPA carboxylase, 75
Dopamine, 135, 295, 473, 497
Duodenum, 263

Electrolyte secretion, 411
Electromyogram (EMG), 47, 185, 383
Electrophysiology, 355
Endothelin, 81
Endothelium-derived relaxing factor, 81
Endurance running, 569

Endurance training, 473
Enzyme histochemistry, 589
Enzymes, 29
Epithelial transport, 411
Epitrochlearis muscle, 395
Erythropoiesis stimulating factor, 527
Erythropoietin, 527
Excitatory amino acids, 483
Excitatory junction current, 137
Exercise, 193, 199, 321, 395, 473
Exercise training, 177
Extracellular potassium, 151

Fibre types, 29, 229
Fibre volume, 205
Fibre width, 205
Fibrinogen, 455
Filtration fraction, 487
Foot-strike type, 217
Force, 367
Force-velocity relation, 37
Forearm, 7
Four-vessel occulsion model of brain, 289
Frog, 443
Frog skin 535, 547
Frontal cortex, 497
Fura-2, 113

Ganglionic blockade, 131 Gastric H,K-ATPase, 581 Gastric acid secretion, 301 Gastrin, 301 Glands 443, 535, 547 Glomerular filtration rate, 487 Glomerular regulation, 495 Glucagon, 519 Glucose 1,6-bisphosphate, 377 Glucose 6-phosphate, 377 Glucose metabolism, 177 Glucose uptake, 377 Glucose utilization, 377 Glycine-extended gastrins, 301 Glycogen breakdown, 229 Goldblatt hypertension, 487 Ground reaction forces, 217 Growth factors, 291 Guinea-pig, 59

Haemodynamics, 321 Haemoglobin, 81 HCO₃ secretion, 263 HCO₃-ATPase activity, 107 Heart rate, 167 Hexokinase, 377 Hippocampus, 289, 347 Histamine, 309 Histamine release, 309 Histamine storage, 309 Histochemistry, 229, 253, 561 Human(s), 47, 89, 141, 185, 463, 561 Human locomotion, 217 Human pulmonary artery, 161 5-Hydroxytryptamine, 59, 473 8-Hydroxy-2-(di-n-propylamino)-tetralin(8-OH-DPAT), 59 Hyperaemia, 551 Hypofrontality, 135 Hypothalamus, 133 Hypovolaemia, 1, 141

Ibuprofen, 80 Immunocytochemistry, 289 Immunofluorescence, 201 Immunohistochemistry, 253, 615 Inhibition, 200 Inosine monophosphate, 193 Inotropy, 321 Insulin, 519 Insulin sensitivity, 177 Internal mammary artery (IMA), 615 Intestinal absorption, 271 Intestinal fluid transport, 419 Intestinal secretion, 253 Intra-axonal flow, 617 Intracellular free Ca2+ 301 In vitro, 463 In vivo, 463 Ion exchange, 309 Ion fluxes, 535, 547 Ionic strength, 205 Ischaemia, 97, 321 Islets of Langerhans, 113 Isoprenaline, 235, 245 Isotonic water transport, 443

Jejunum, 271, 419

Ketanserin, 59 Kidney, 75

Lactate, 193, 199 Lactate dehydrogenase isoenzymes, 331 Left ventricular pressure, 167 Lower body negative pressure (LBNP), 1

Maltodextrin, 69 Man, 1, 7, 403 Mast cell granules, 309 Mast cells, 309 Membrane potential, 235, 245 Mesenteric arteries, 151 Mesolimbic, 135 Mesulergine, 59 Methacholine, 235 Methiothepin, 59 Microfluorometry, 113 Microspheres, 17 Microtomy, 561 Morphine, 493 Morphometry, 597 Motoneuron, 383 Motor control, 47 Motor unit, 383 Mouse, 527 Mouse lumbrical muscle, 37 Mouse vas deferens, 617 Multiple conductance levels, 611 Muscle blood flow, 551 Muscle fatigue, 193 Muscle metabolism, 193, 199 Muscle strength, 185 Muscles, 561 Myelinated fibres, 97 Myosin phosphorylation, 367

Na,K-ATPase, 281 Na+,K+-ATPase activity, 107 Na, K-ATPase inhibitor, 281 Needle biopsy, 561 Negative pressure, 403 Neocortex, 289 Neonate, 527 Nerve compression, 97 Nerve stimulation, 81 Neurokinin A, 575 Neuronal plasticity, 121 Neuropeptide Y, 137, 507 Neuropeptides, 615 Neurotensin, 493 NGF-like immunoreactivity, 201 Nicotinic receptors, 295 Non-myelinated fibres, 97 Noradrenaline, 81, 89, 139, 161, 235, 287, 383, 463, 473, 245, 507, 519, 619

ob/ob-mice, 113 17-β-Oestradiol, 107 Optic nerve, 597 Ornithine decarboxylase, 427 Osmolality, 499

P_{2x}-purinoceptor, 139, 619
Pain, 493
Pancreas, 75
Papillary muscle, 331
Parietal cells, 301
Patch clamp, 611
Pepsin, 581
Pepsinogen, 581
Perfusion, 499
Peri-aqueductal grey, 493
Pernicious anaemia, 581
Phenylephrine, 235, 463
Phenylisopropyl adenosine, 347

Phosphocreatine, 193, 199, 377 Physical stress, 69 Physical training, 185 Pig, 411 Plasma, 133 Plasma vasopressin, 60 Plasma volume, 1, 141, 455 Plateau potential, 383 Polyamines, 427 Postural control, 47 Potassium, 443, 551 Potassium channels, 347 Potassium conductance, 137 Potassium release, 300 Pre-frontal cortex, 135 Pre-junctional control, 617 Pre-steady-state flux ratio, 535 Pre-synaptic inhibition, 137 Pressure transmission, 403 Progesterone, 107 Prostaglandin(s), 89, 161 Prostaglandin F_{2α} 139 Protein deprivation, 589, 597, 605

Quanta, 355

Rabbit heart, 81 Radioimmunoassay (RIA), 133 Rat, 59, 289, 383, 419, 493, 589, 597, 605 Rat brain, 611 Rat parotid gland, 245 Rat tail artery, 287, 200, 610 86Rb+, 17 Recycling, 443 Reference values, 561 Regularity, 135 Regulation, 17 Renal blood flow, 507 Renal hypertension, 487 Renovascular hypertension, 495 Reserpine, 507 Ritanserin, 497

Saliva, 435
Salivary glands, 427
Salt, 271
Saphenous veins, 463
Schizophrenia, 135
Second messenger, 299, 617
Sensory nerves, 575
Serotonergic receptors, 59
Serotonin, 161, 383, 497
Shortening velocity, 367
Single cell recording, 497
Skeletal muscle, 1, 7, 205, 229
Skin, 1, 7
Sodium, 443
Sodium chloride, 271

Soleus, 383 Soleus muscle, 177 Species and regional differences, 151 Speed adaptation, 217 Spinal cord, 383 Spinal pathways, 121 Splanchnic nerves, 263, 519 Stiffness, 205 Strenuous exercise, 60 Stress, 305 Submandibular gland, 435 Substance P, 235, 427, 493, 575 Superoxide dismutase, 81 Supersensitivity, 235 Sympathetic, 287, 299 Sympathetic control, 507 Sympathetic nerves, 519, 617 Sympathetic co-transmission, 619 Sympathetic neurotransmission, 355 Sympatho-adrenal system, 75, 131

Tactile sensitivity, 121
Tension, 205
Tetanus, 205
Tetanus potentiation, 37
Thromboxane A₂, 321
Thromboxane receptor, 161
Tissue level, 493
Tonicity, 205
Torque, 29
Transcapillary absorption, 1
Transcapillary escape rate, 45
Transmitter release, 617

Transport pathways, 535 Trunk, 47 Tryptophan, 473 Tyrosine hydroxylase, 75

U-44069, 161 U-46619, 161 Ulcer, 253

Vagus, 263 Vascular nerves, 615 Vascular reactivity, 151 Vascular smooth muscle, 367 Vascular transmural pressure, 403 Vasoactive intestinal peptide (VIP), 235, 427 Vasoactive intestinal polypeptide, 289 Vasoconstriction, 321 Vasomotion, 17 Vasomotor, 287, 299 Vasomotor effects, 483 Vasopressin, 339 Venous pressure, 141 Ventral tegmental area, 497 Ventricle(s), 133, 331 Visual evoked response, 605 Visual system, 589 Volume expansion, 419

Water, 271

X-ray micro-analysis, 271

Yohimbine, 347

